Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the

application:

Listing of Claims:

Claims 1-17. (Canceled)

18. (Previously presented) In an injection nozzle (1) for internal combustion engines, which

has at least one injection orifice (3), a nozzle needle seat (4), and a nozzle needle (5), the

improvement wherein the end of the nozzle needle (5) oriented toward the nozzle needle seat (4)

has an annular groove (8), and wherein the width of the annular groove (8) is one-and-a-half

times greater than the diameter of the injection orifice (3).

19. (Previously presented) The injection nozzle (1) according to claim 18, wherein the nozzle

needle seat (4) is the shape of a truncated cone having a base surface.

20. (Previously presented) The injection nozzle (1) according to claim 19, wherein the cone

angle of the nozzle needle seat (4) is approximately 60°.

21. (Currently amended) The injection nozzle (1) according to claim 19, wherein the end of

the nozzle needle (5) oriented toward the nozzle needle seat (4) is a cone and that the cone angle

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of the nozzle needle (5) is up to one degree greater than, preferably 15 to 30 angular minutes

greater than; the cone angle of the nozzle needle seat (4).

22. (Previously presented) The injection nozzle (1) according to claim 19, wherein the annular

groove (8) runs parallel to the base surface of the cone.

23. (Previously presented) The injection nozzle (1) according to claim 18, wherein a blind hole

(2) adjoins the nozzle needle seat (4) and has at least one injection orifice (3).

24. (Previously presented) The injection nozzle (1) according to claim 23, wherein when the

injection nozzle (1) is closed, the distance of the transition (7) between the blind hole (2) and the

nozzle seat (4) from the bottom (9) of the injection nozzle (1) and the distance of the annular

groove (8) from the bottom (9) of the injection nozzle (1) are essentially equal.

25. (Currently amended) The injection nozzle (1) according to claim 23, wherein the width of

the annular groove (8) is approximately 0.1 mm to 0.3 mm, preferably approximately 0.16 mm

to 0.24 mm.

26. (Currently amended) The injection nozzle (1) according to 23, wherein the depth of the

annular groove (8) is approximately 0.02 mm to 0.2 mm, preferably approximately 0.08 mm to

0.14 mm.

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27. (Previously presented) The injection nozzle (1) according to claim 23, wherein the blind

hole (2) is conical.

28. (Previously presented) The injection nozzle (1) according to claim 23, wherein the blind

hole (2) is cylindrical.

29. (Previously presented) The injection nozzle (1) according to claim 23, wherein the blind

hole (2) is a mini-blind hole or micro-blind hole.

30. (Previously presented) The injection nozzle (1) according to claim 18, wherein the nozzle

needle seat (4) has at least one injection orifice (3).

31. (Previously presented) The injection nozzle (1) according to claim 30, wherein when the

injection nozzle (1) is closed, the distance of the piercing point (16) of the longitudinal axis of

the injection orifice(s) (3) through the nozzle needle seat (4) from the bottom (9) of the injection

nozzle (1) and the distance of the annular groove (8) from the bottom (9) of the injection nozzle

(1) are essentially equal.

32. (Canceled)

33. (Previously presented) The injection nozzle (1) according to claim 30, wherein that the

depth of the annular groove (8) is less than the width of the annular groove (8).

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34. (Currently amended) The injection nozzle (1) according to claim 30, wherein the depth of

the annular groove (8) is approximately 0.02 mm to 0.1 mm, preferably approximately 0.04 mm

to 0.07 mm.

35. (Previously presented) The injection nozzle (1) according to claim 21, wherein the annular

groove (8) runs parallel to the base surface of the cone.

36. (Currently amended) The injection nozzle (1) according to claim 18, wherein a blind hole

(2) adjoins the nozzle needle seat (4) and has at least one injection orifice (3), wherein the nozzle

seat (4) is the shape of a truncated cone, and wherein the end of the nozzle needle (5) oriented

toward the nozzle needle seat (4) is a cone and that the cone angle of the nozzle needle (5) is up

to one degree greater than, preferably 15 to 30 angular minutes greater than, the cone angle of

the nozzle needle seat (4).

37. (Canceled)

38. (Currently amended) The injection nozzle (1) according to 23, wherein the depth of the

annular groove (8) is approximately 0.02 mm to 0.2 mm, preferably approximately 0.08 mm to

0.14 mm, wherein when the injection nozzle (1) is closed, the distance of the transition (7)

between the blind hole (2) and the nozzle seat (4) from the bottom (9) of the injection nozzle (1)

and the distance of the annular groove (8) from the bottom (9) of the injection nozzle (1) are

essentially equal, and wherein the width of the annular groove (8) is approximately 0.1 mm to

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0.3 mm, preferably approximately 0.16 mm to 0.24 mm.

39. (Currently amended) The injection nozzle (1) according to claim 23, wherein the blind hole

(2) is conical wherein when the injection nozzle (1) is closed, the distance of the transition (7)

between the blind hole (2) and the nozzle seat (4) from the bottom (9) of the injection nozzle (1)

and the distance of the annular groove (8) from the bottom (9) of the injection nozzle (1) are

essentially equal, and wherein the width of the annular groove (8) is approximately 0.1 mm to

0.3 mm, preferably approximately 0.16 mm to 0.24 mm.

40. (Currently amended) The injection nozzle (1) according to claim 23, wherein the blind hole

(2) is cylindrical, wherein the width of the annular groove (8) is approximately 0.1 mm to 0.3

mm, preferably approximately 0.16 mm to 0.24 mm, and wherein the depth of the annular groove

(8) is approximately 0.02 mm to 0.2 mm, preferably approximately 0.08 mm to 0.14 mm.

41. (Currently amended) The injection nozzle (1) according to claim 23, wherein the blind hole

(2) is a mini-blind hole or micro-blind hole, wherein the width of the annular groove (8) is

approximately 0.1 mm to 0.3 mm, preferably approximately 0.16 mm to 0.24 mm, and wherein

the depth of the annular groove (8) is approximately 0.02 mm to 0.2 mm, preferably

approximately 0.08 mm to 0.14 mm.

42. (Previously presented) The injection nozzle (1) according to claim 19, wherein the nozzle

needle seat (4) has at least one injection orifice (3).

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43. (Previously presented) The injection nozzle (1) according to claim 21, wherein the nozzle

needle seat (4) has at least one injection orifice (3).

44. (Previously presented) The injection nozzle (1) according to claim 43, wherein when the

injection nozzle (1) is closed, the distance of the piercing point (16) of the longitudinal axis of

the injection orifice(s) (3) through the nozzle needle seat (4) from the bottom (9) of the injection

nozzle (1) and the distance of the annular groove (8) from the bottom (9) of the injection nozzle

(1) are essentially equal.

Claim 45. (Canceled)

Claim 46. (Canceled)

Claim 47. (Canceled)